

FIG. 1

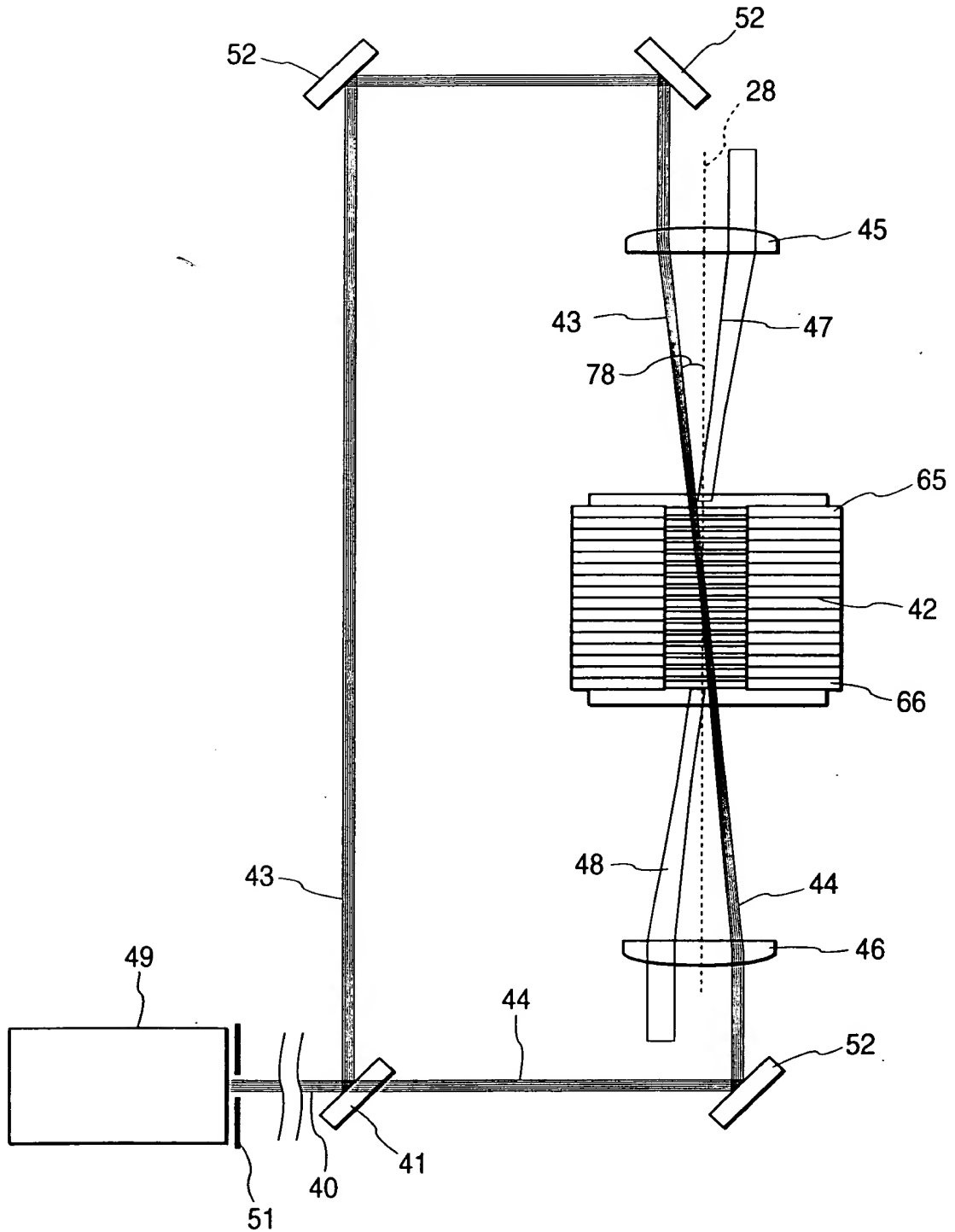


FIG. 2

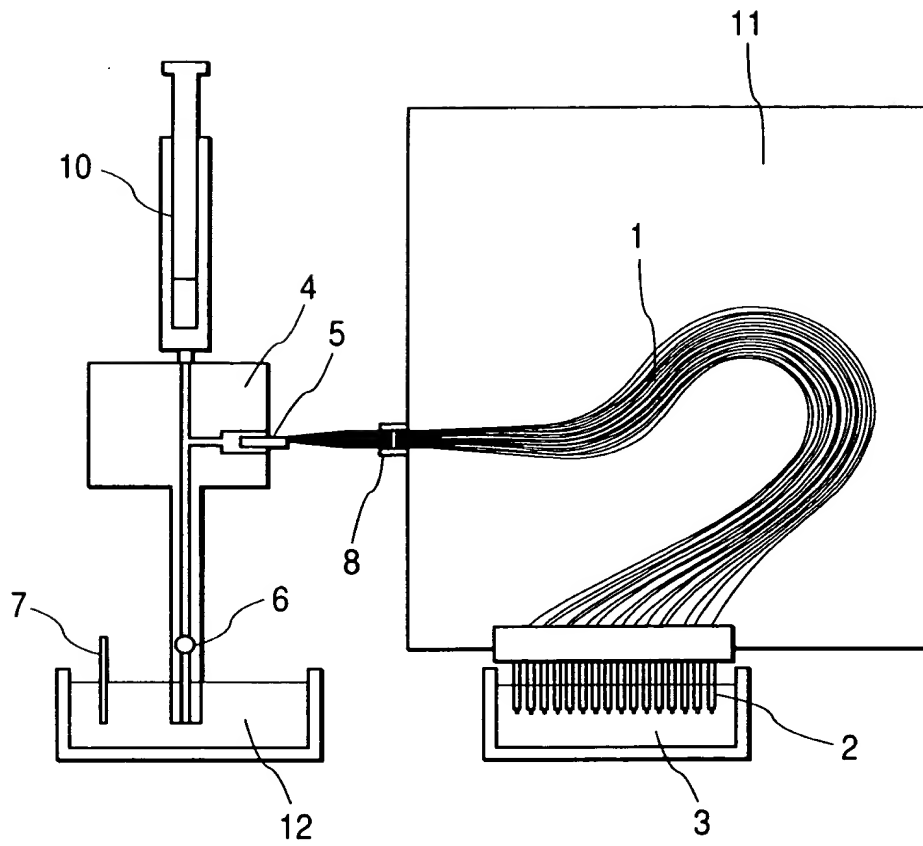


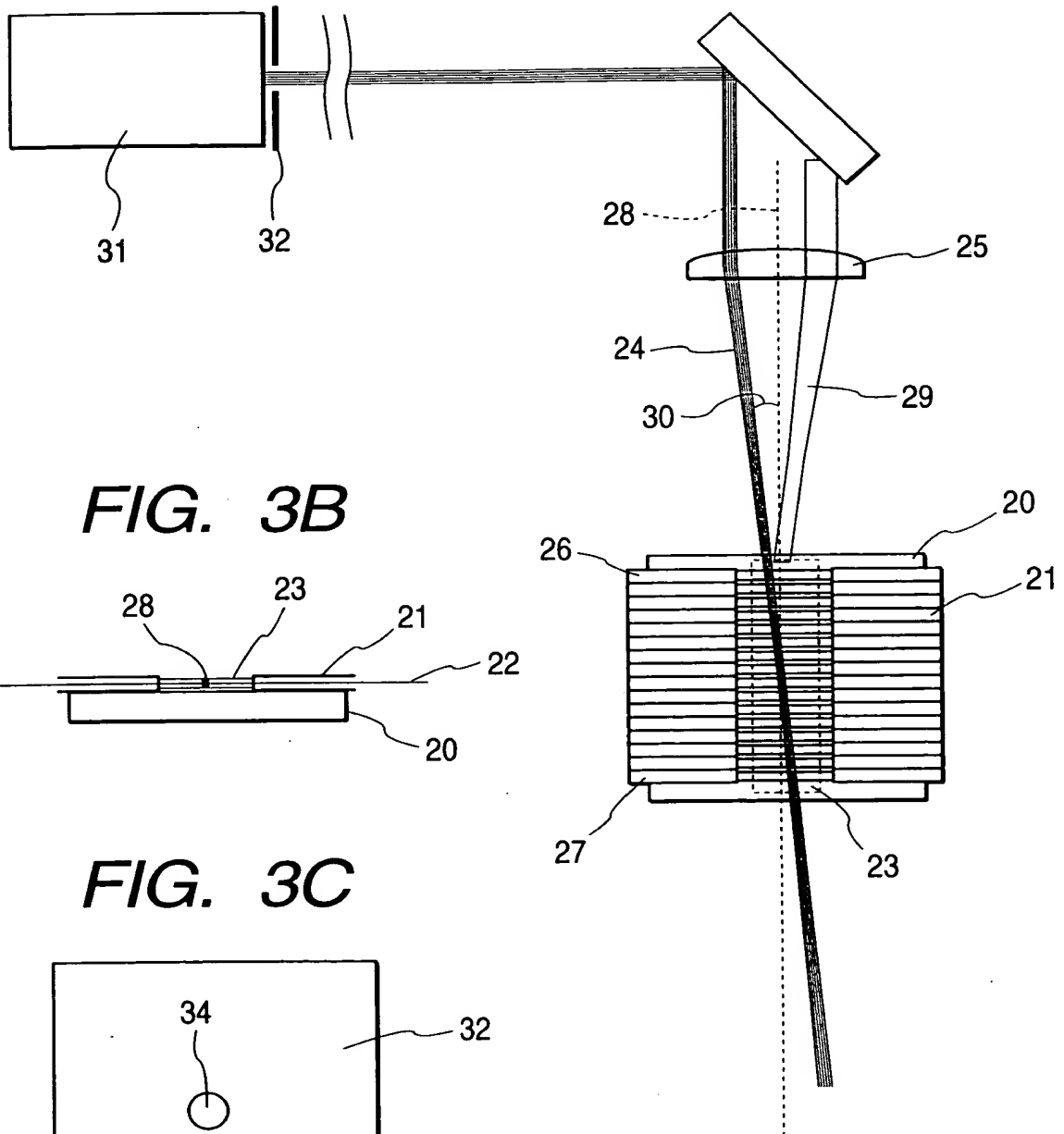
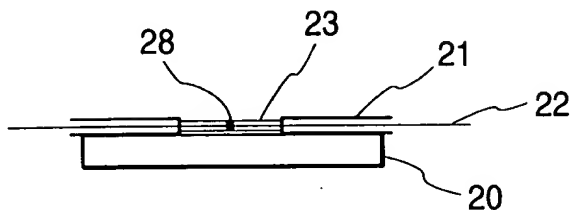
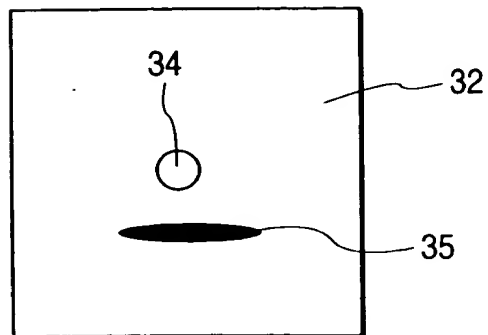
FIG. 3A**FIG. 3B****FIG. 3C**

FIG. 4A

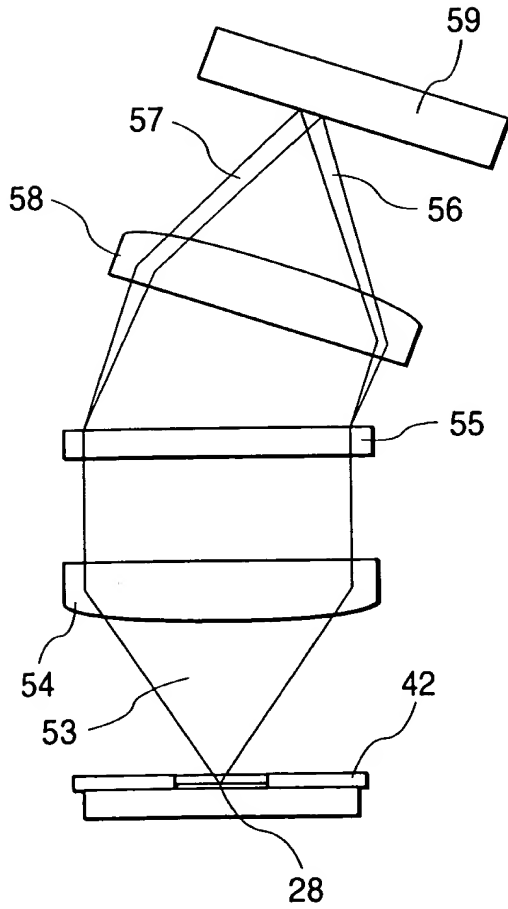


FIG. 4B

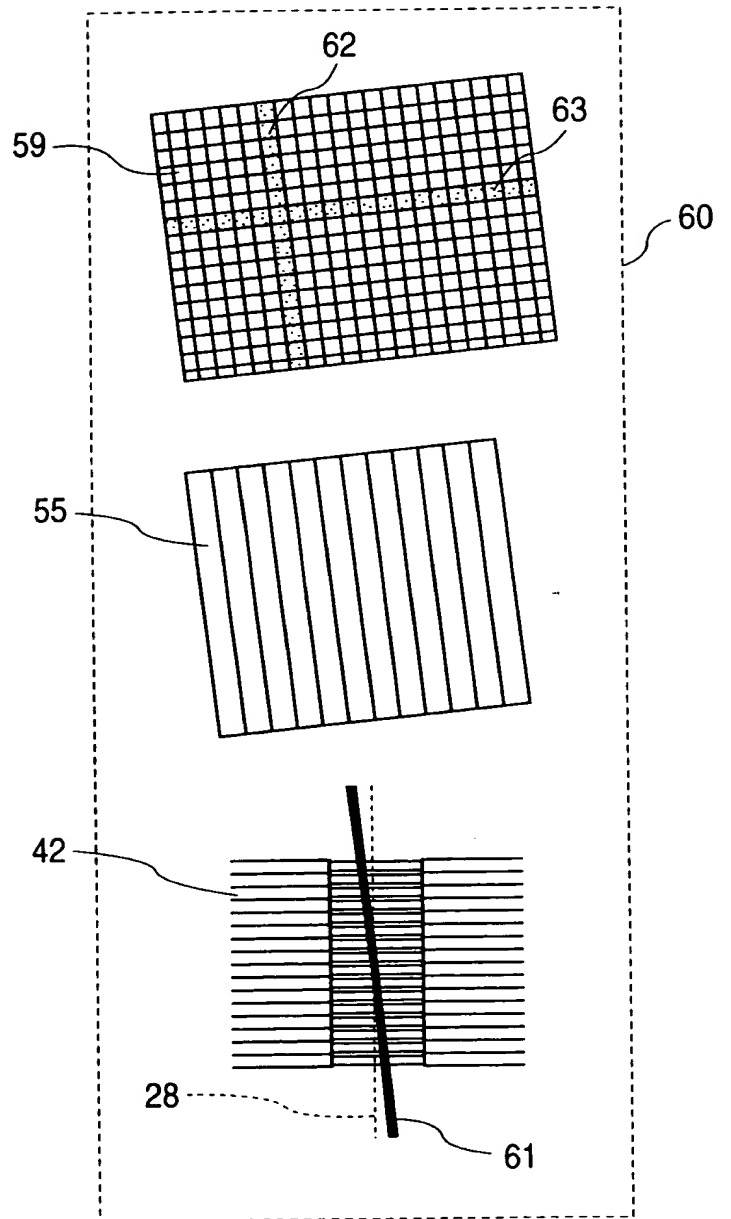


FIG. 5A

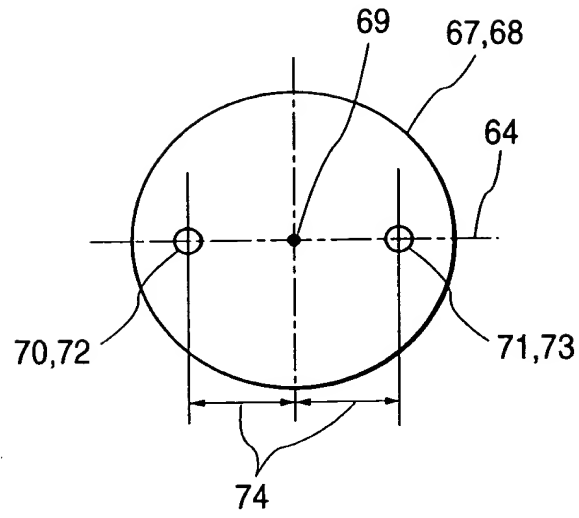


FIG. 5B

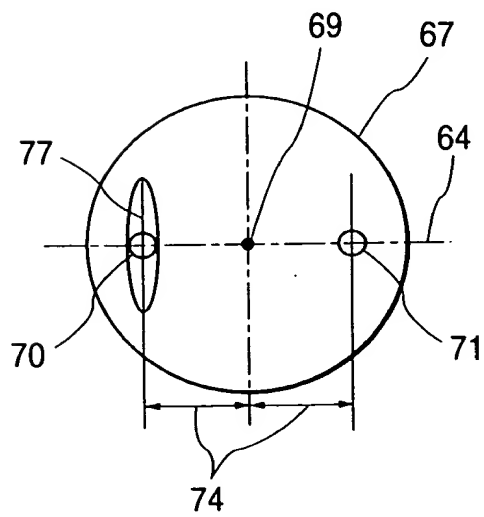


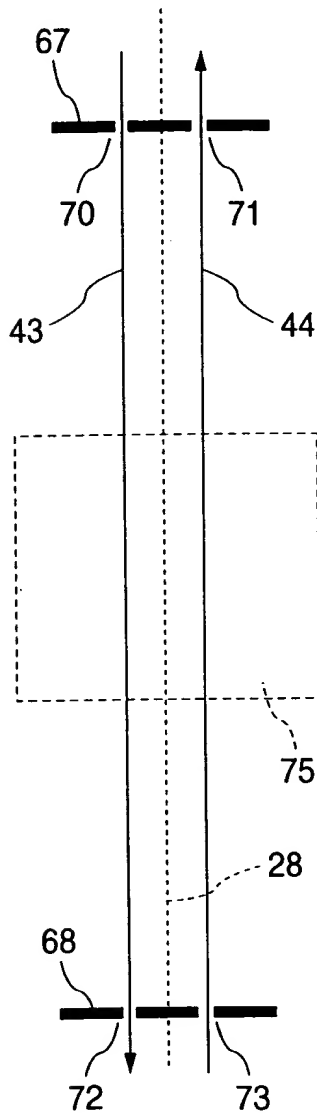
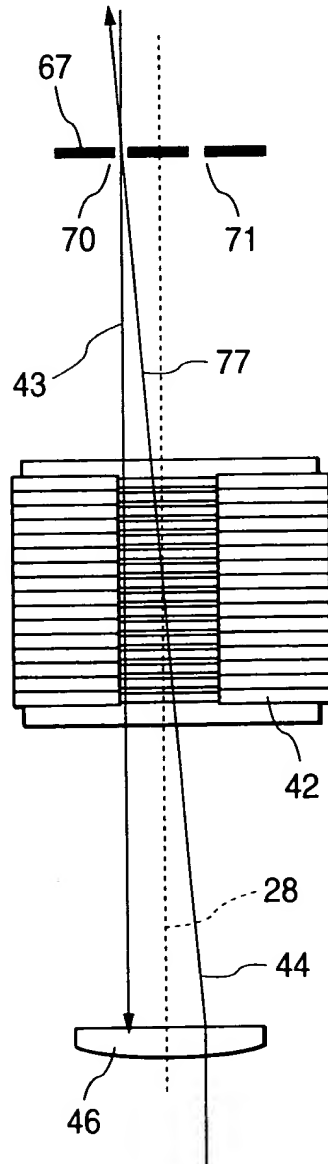
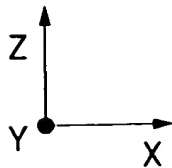
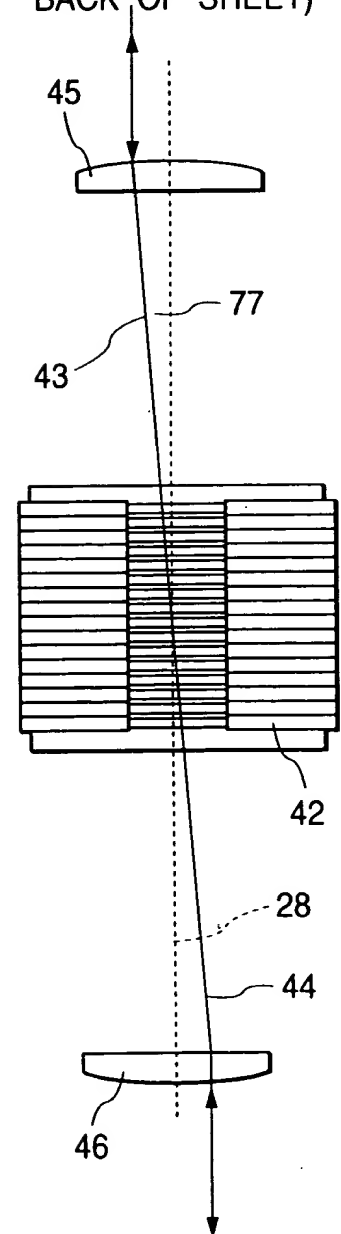
FIG. 6A(DETECTOR IS
BACK OF SHEET)**FIG. 6B**(DETECTOR IS
BACK OF SHEET)**FIG. 6C**(DETECTOR IS
BACK OF SHEET)

FIG. 7A

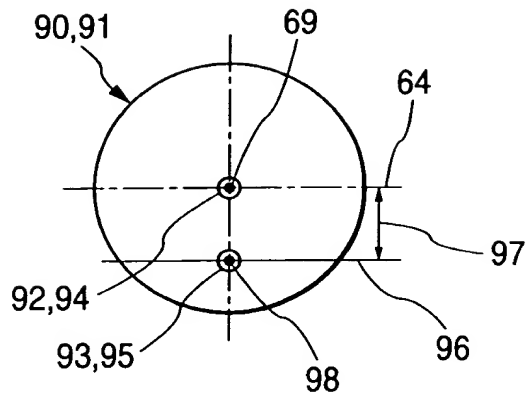


FIG. 7B

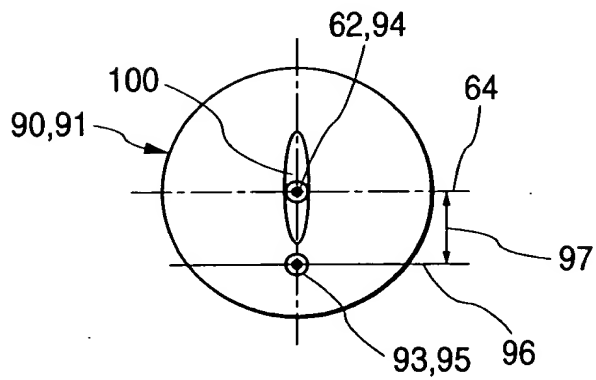


FIG. 7C

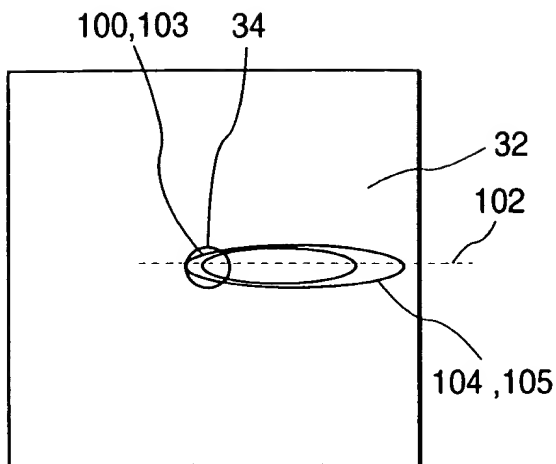
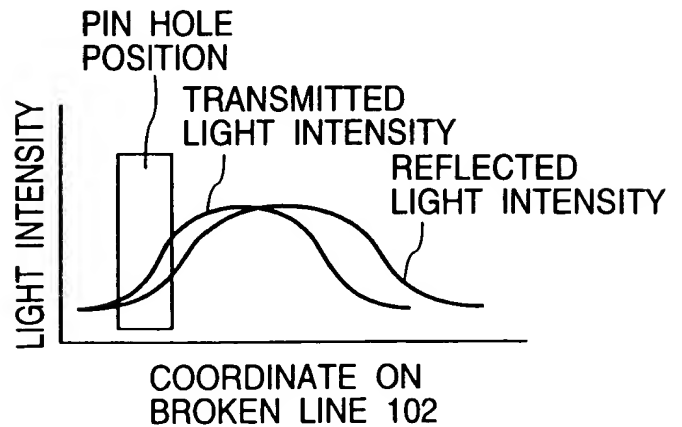
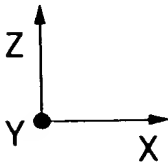


FIG. 7D



(DETECTOR IS
BACK OF SHEET)



A schematic diagram of a fluorescence detection system for a particle beam. A vertical line represents the particle beam, with arrows indicating its direction. At the top, a horizontal bar is labeled 90, with segments 93 and 92. A dashed line 22,28 is shown above the beam. A dashed line 99 is also shown. In the middle, a vertical rectangular region is labeled 42, containing a series of small circles. To the right of this region is a label 65, and below it is a label 66. An arrow points from the text "FLUORESCENT DETECTOR SYSTEM" to the region 42. At the bottom, another horizontal bar is labeled 91, with segments 95 and 94. A coordinate system is shown at the bottom left with axes X, Y, and Z.

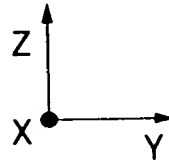


FIG. 9A

(DETECTOR IS BACK OF SHEET)

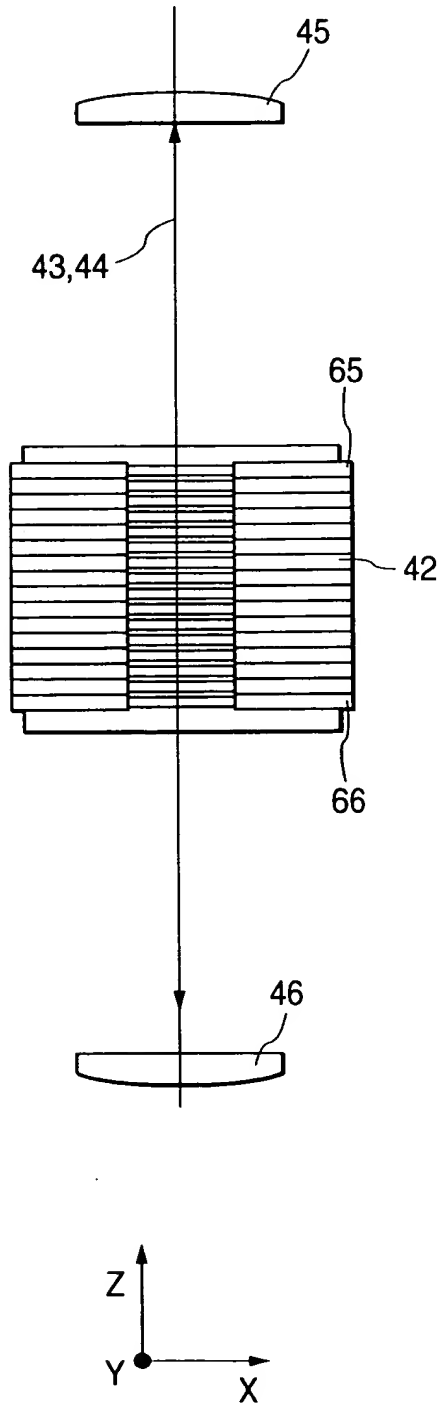


FIG. 9B

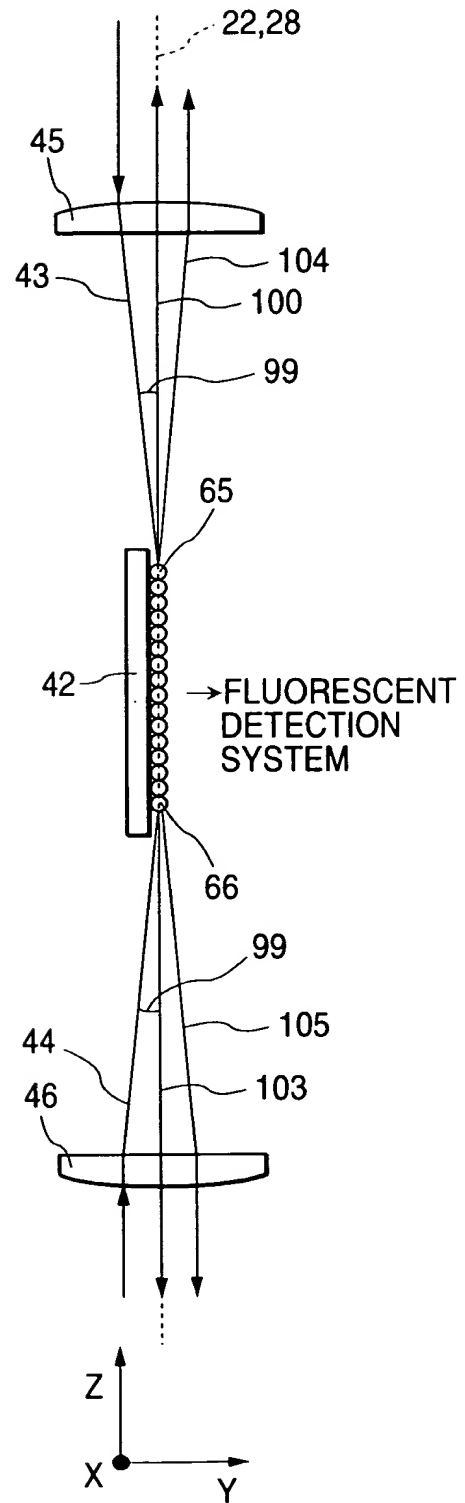
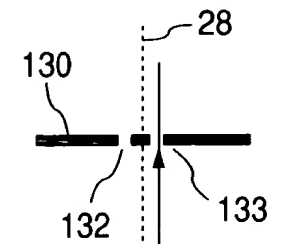
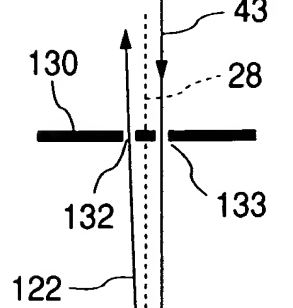


FIG. 10A **FIG. 10B** **FIG. 10C** **FIG. 10D**

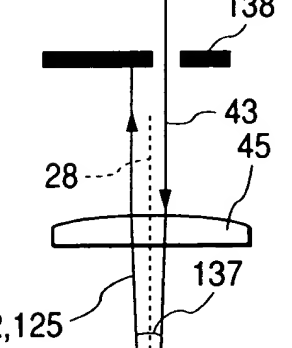
(DETECTOR IS BACK OF SHEET)



(DETECTOR IS BACK OF SHEET)



(DETECTOR IS BACK OF SHEET)



(DETECTOR IS BACK OF SHEET)

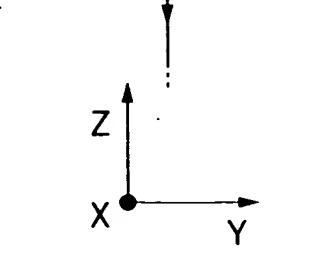
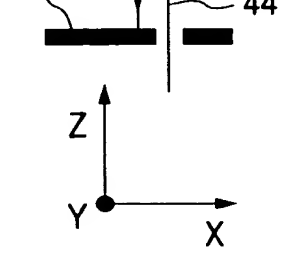
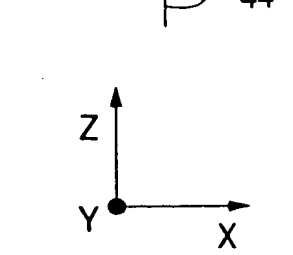
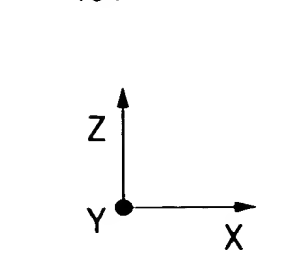
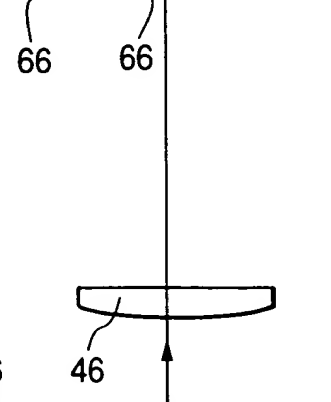
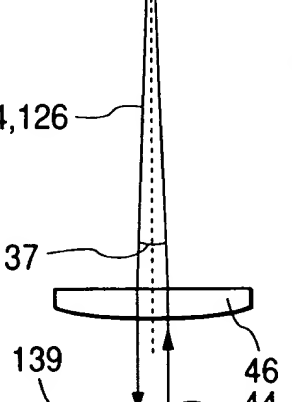
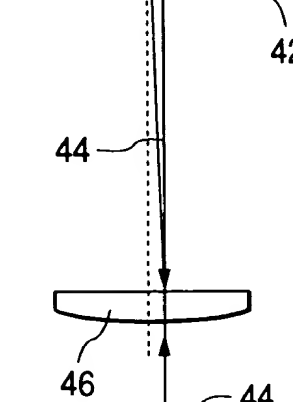
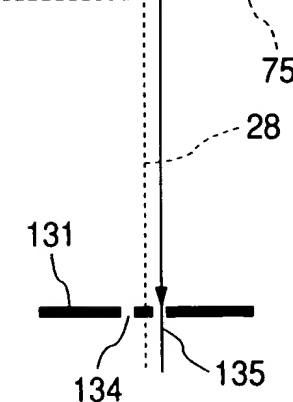
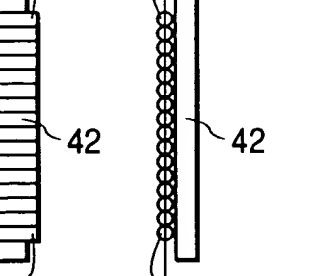
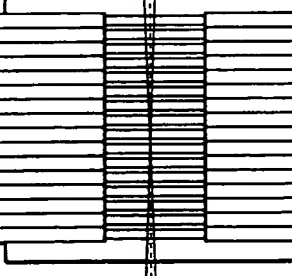
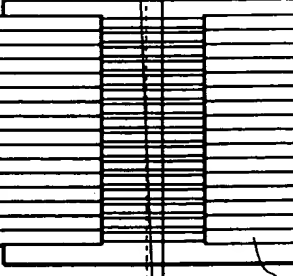
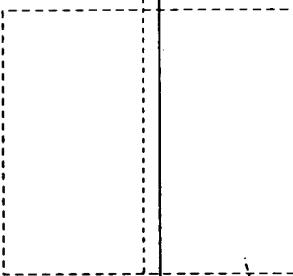
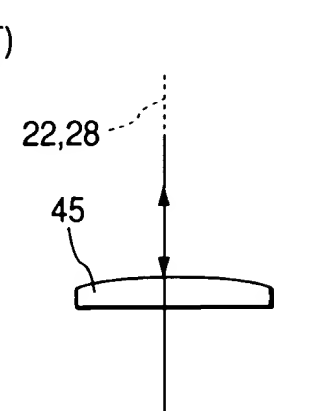


FIG. 11A

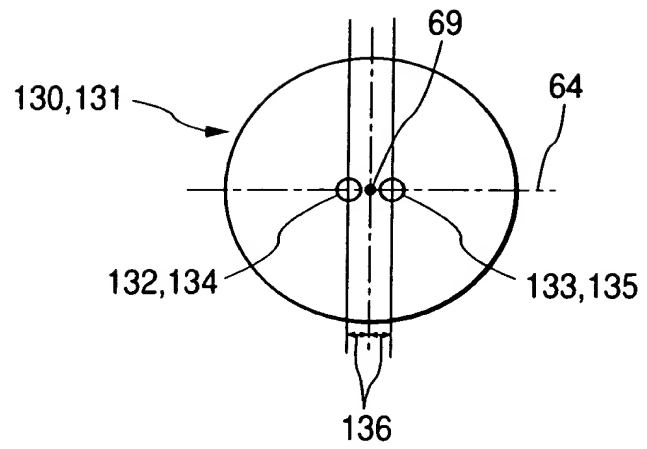


FIG. 11B

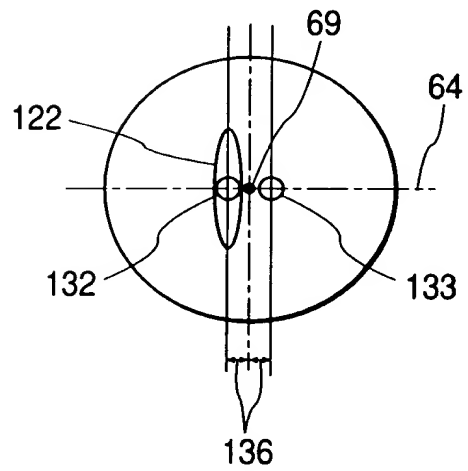


FIG. 11C

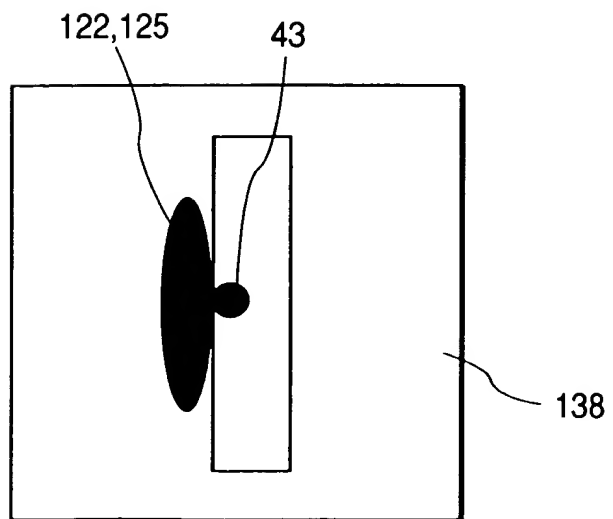


FIG. 12A

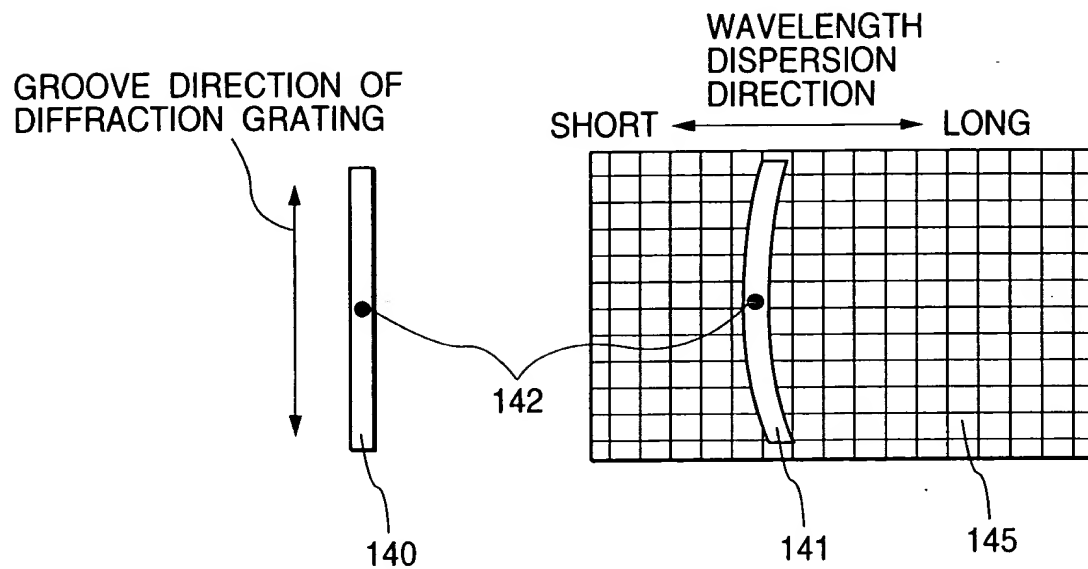


FIG. 12B

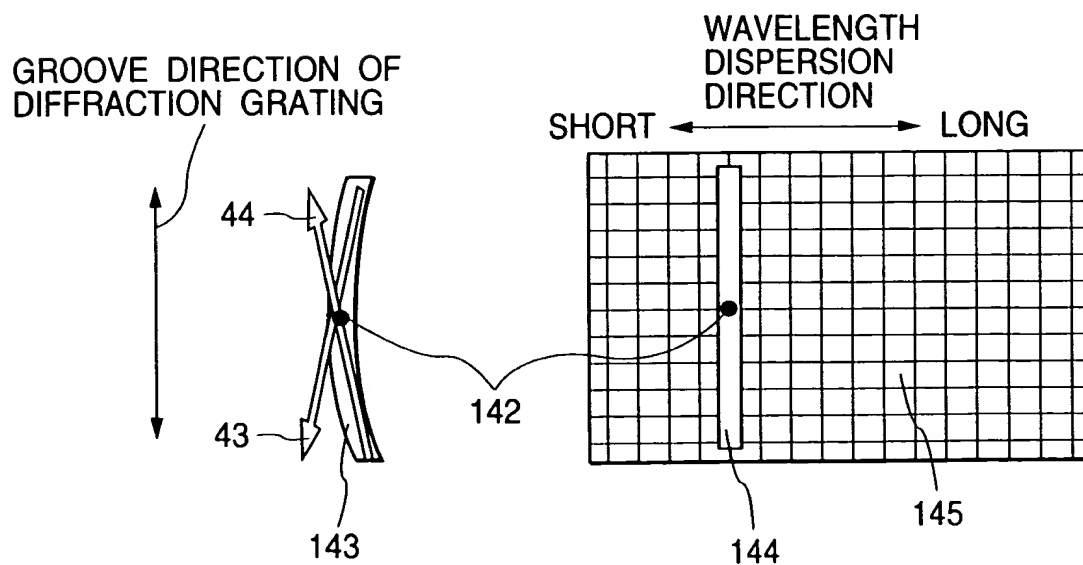


FIG. 13A

(DETECTOR IS BACK OF SHEET)

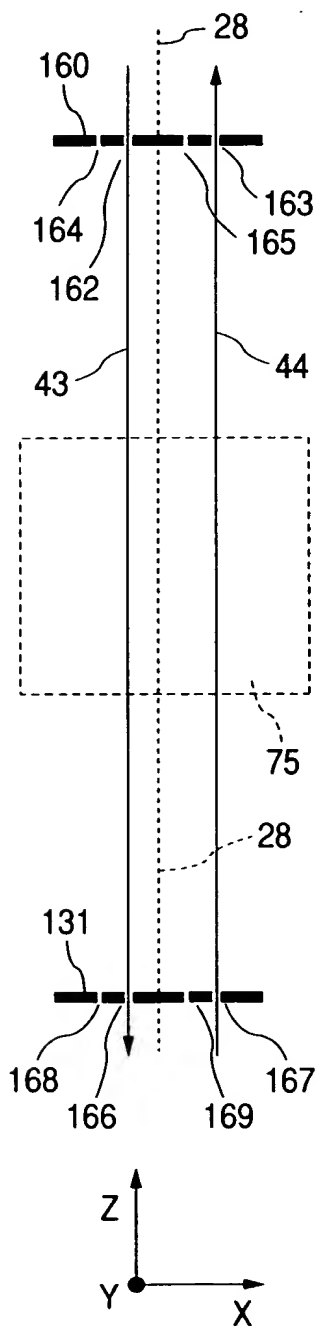


FIG. 13B

(DETECTOR IS BACK OF SHEET)

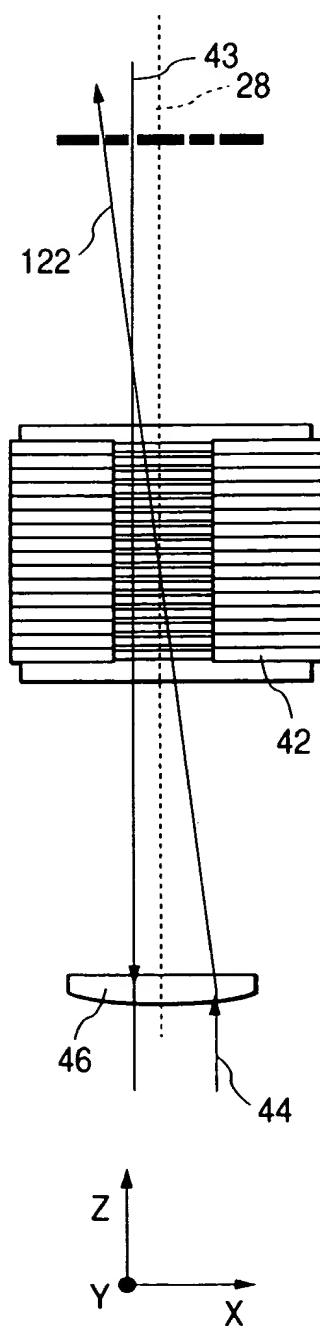


FIG. 13C

(DETECTOR IS BACK OF SHEET)

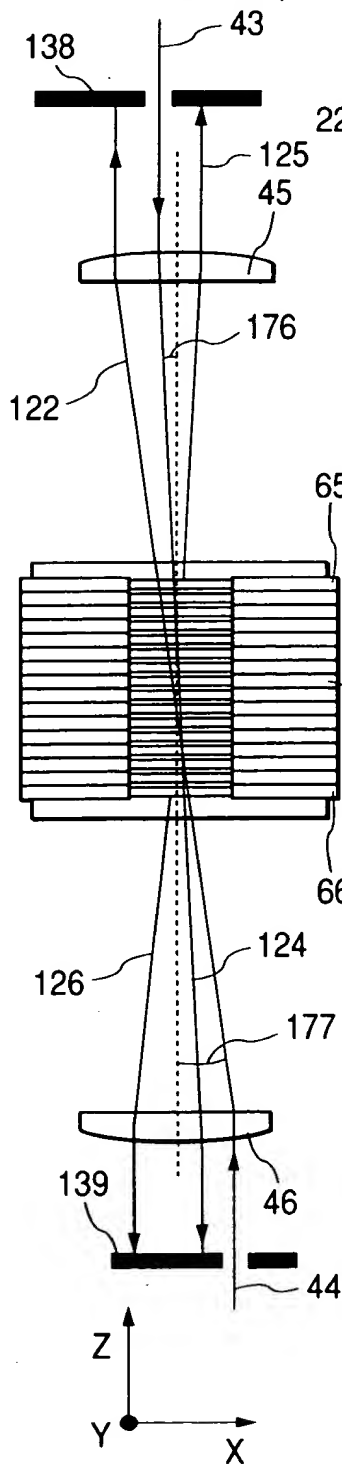


FIG. 13D

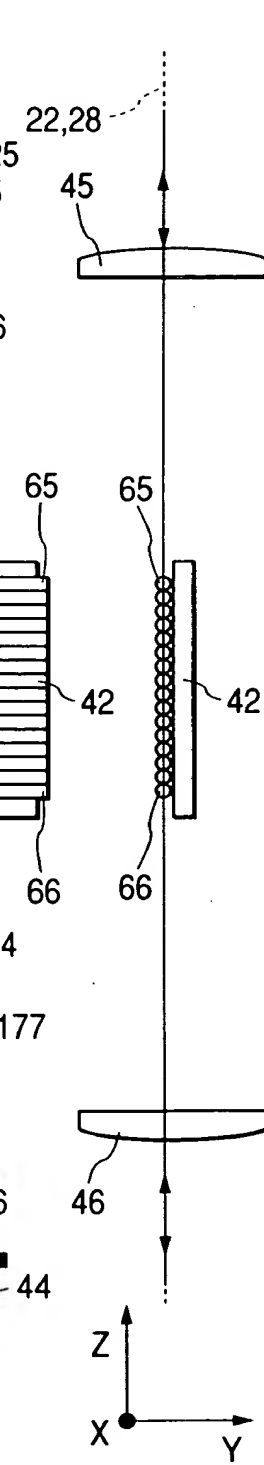


FIG. 14A

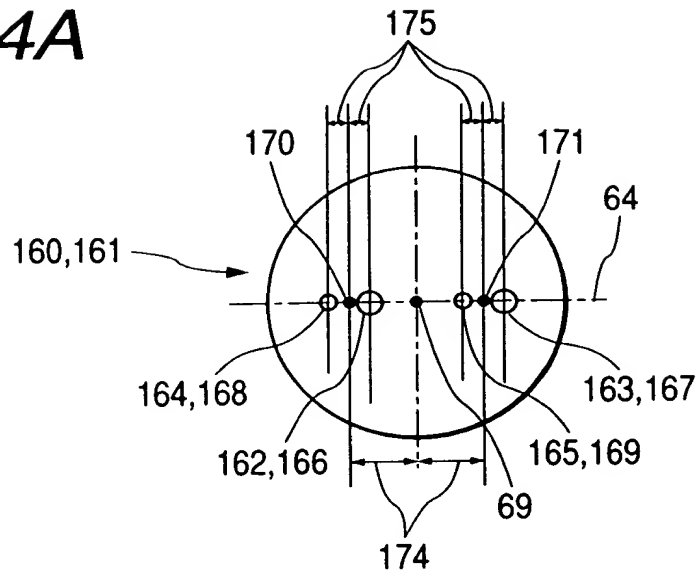


FIG. 14B

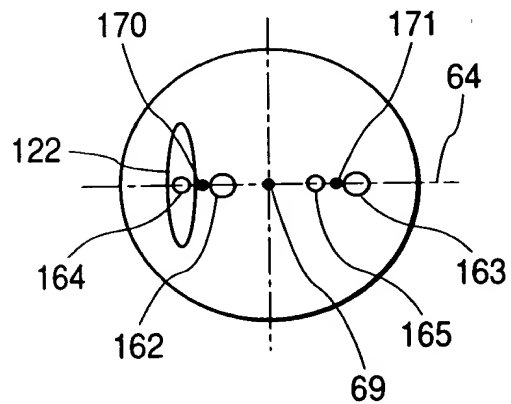


FIG. 14C

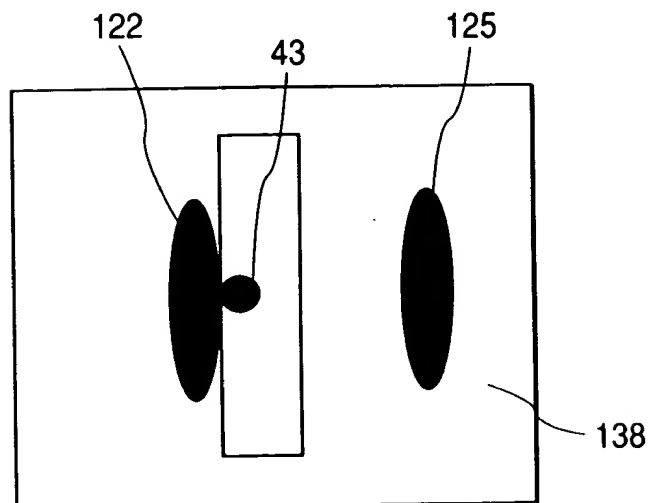


FIG. 15A

(DETECTOR IS BACK OF SHEET)

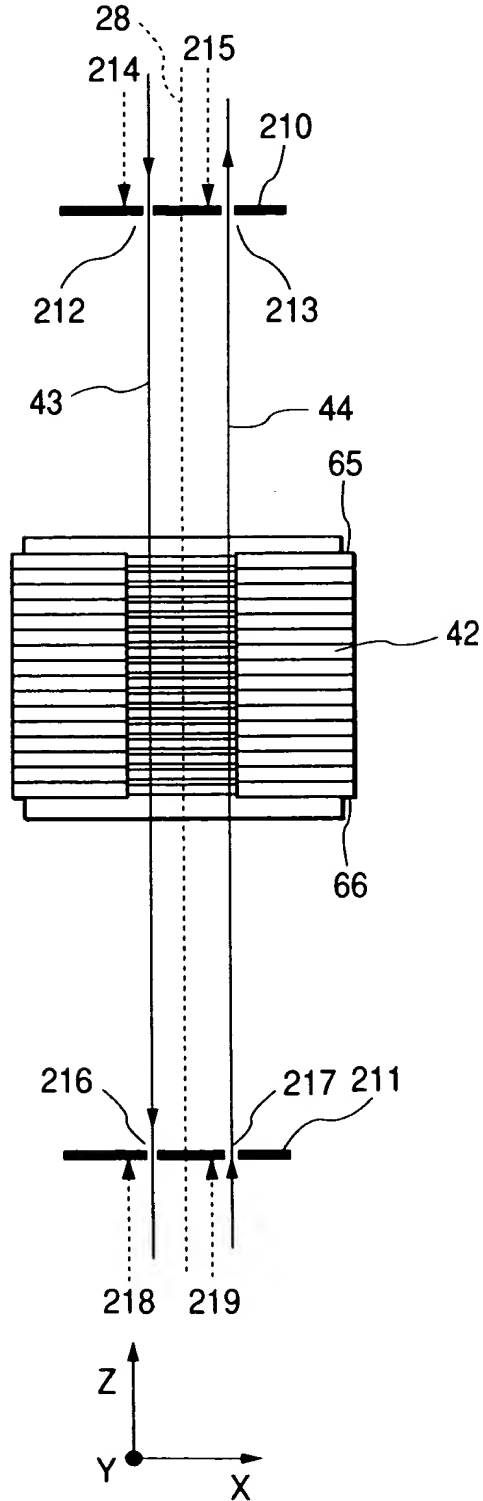


FIG. 15B

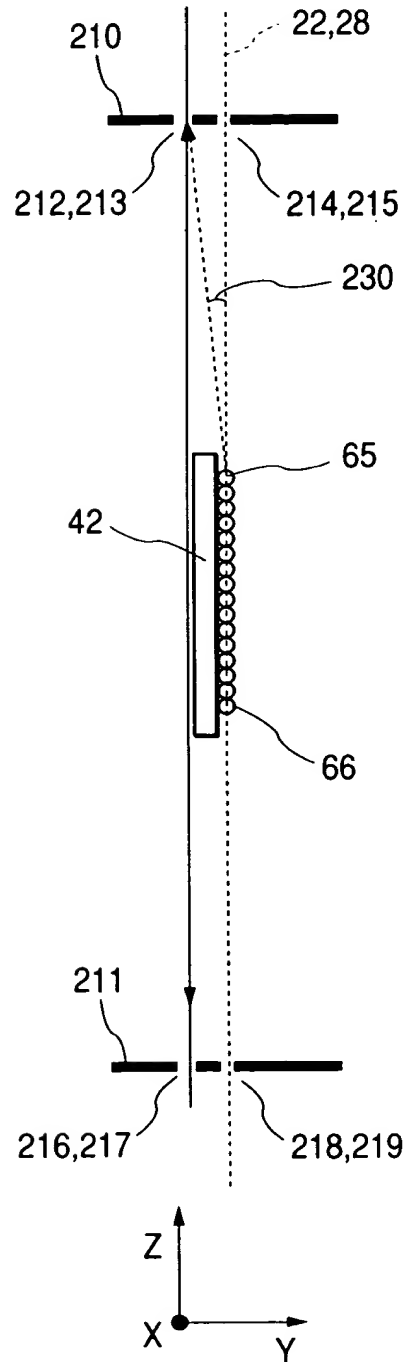


FIG. 15C

(DETECTOR IS BACK OF SHEET)

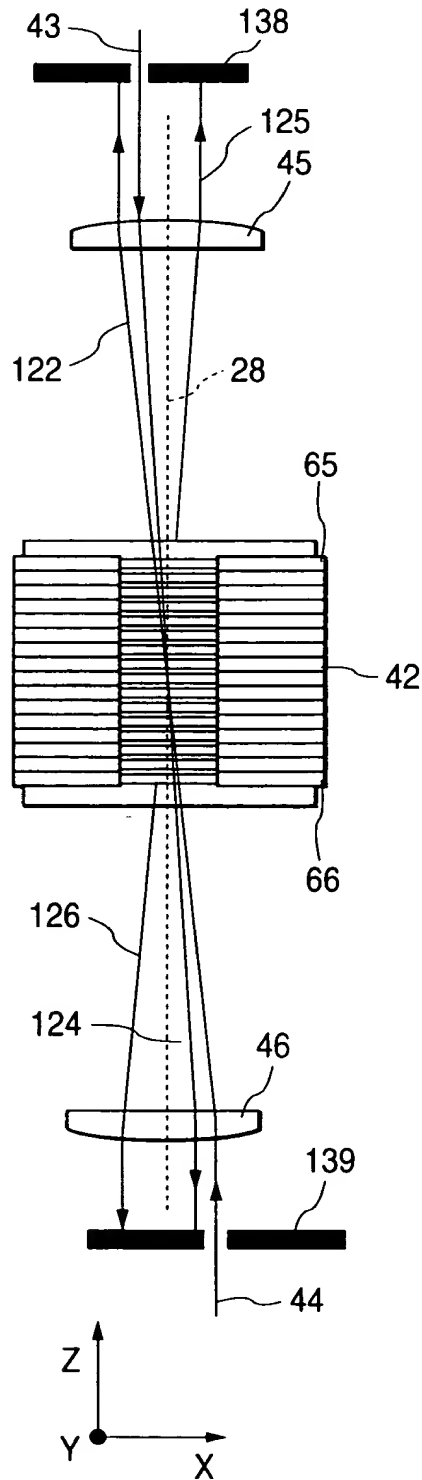


FIG. 15D

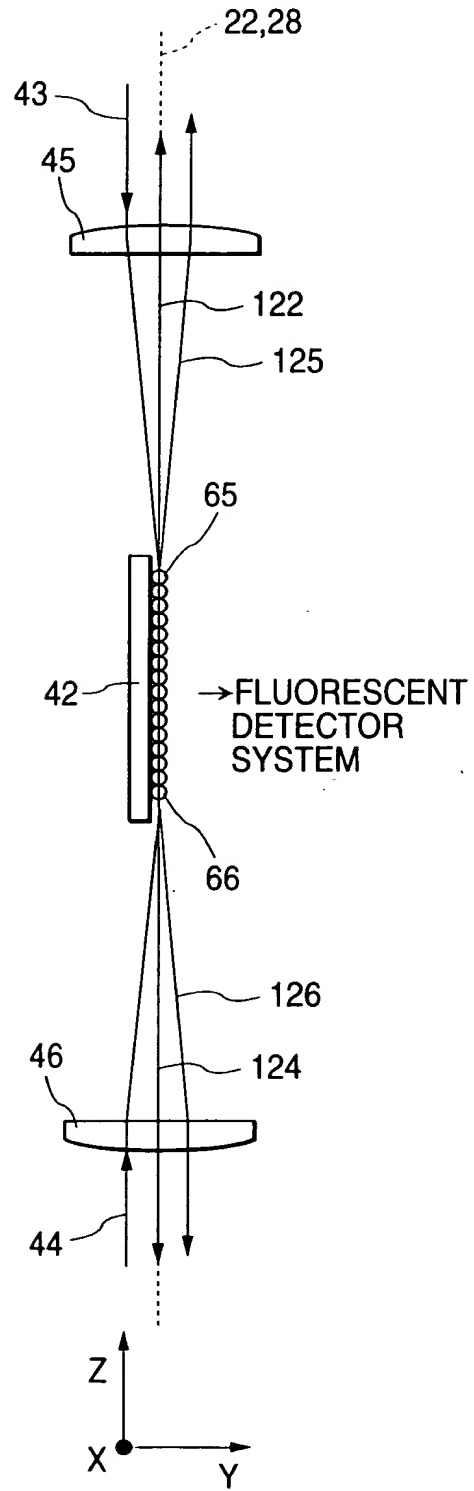


FIG. 16A

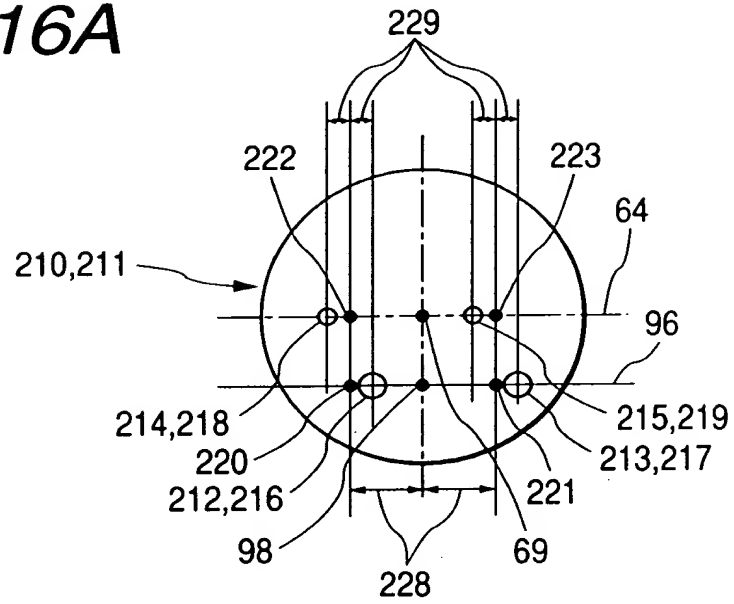


FIG. 16B

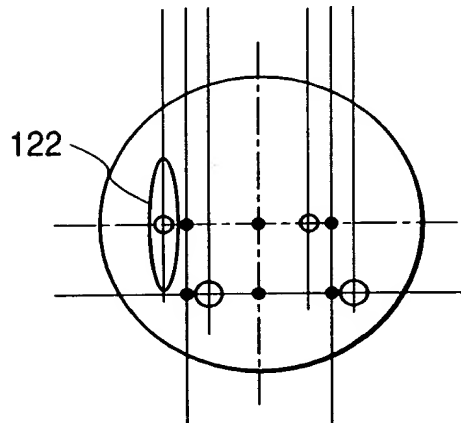


FIG. 16C

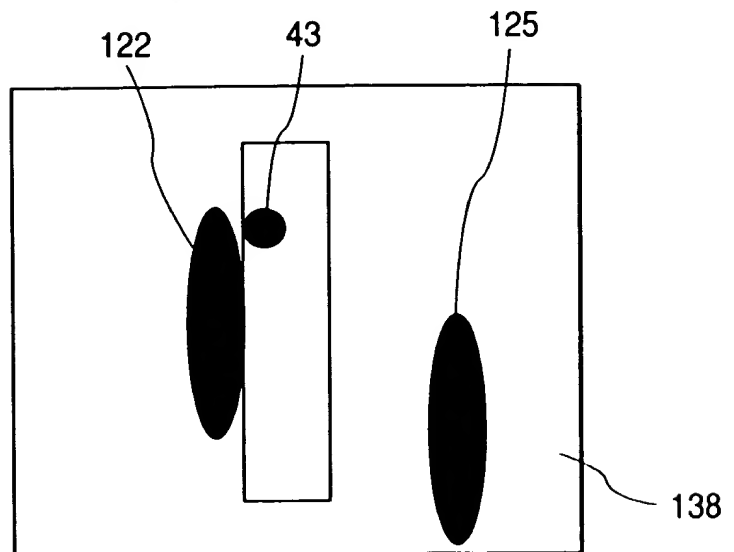


FIG. 17